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**AMENDMENTS TO THE CLAIMS** 

1. (Currently Amended) An auxiliary light source device for a reflective liquid crystal

display device having a reflector, the auxiliary light source device comprising:

a light source; and

a light directing member for directing incident light from the light source toward the

reflector outwardly along an orthogonal direction, the light directing member including.

an upper surface and a lower surface parallel to each other, the lower surface having a

plurality of convex portions extending from the lower surface, each of the convex portions

having a substantially planar surface which is substantially parallel to the lower surface and a

side surface connecting the planar surface and the lower surface, and a side surface angle

between the lower surface and the planar side surface of the convex portion is about 90°, wherein

the plurality of convex portions have the same side surface angle with each other, wherein light

reflected along an orthogonal direction to the liquid crystal display device is uniform, and

wherein a size of the plurality of convex portions increases with increasing distance from the

light source.

2. (Original) The device according to claim 1, further comprising:

a light reflecting member to guide light from the light source into the light directing

member.

Claims 3-5 (Cancelled)

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6. (Previously Presented) The device according to claim 1, wherein the planar surface of

each convex portion has a substantially circular shape.

7. (Original) The device according to claim 1, wherein the planar surface of each convex

portion has a rectangular shape.

8. (Original) The device according to claim 1, wherein the plane surface of the plurality of

convex portions has a bar shape extending perpendicular to a direction of light propagation in the

light directing member.

9. (Original) The device according to claim 1, wherein a distance between the lower

surface and the planar surface of the each convex portion is less than 50 µm.

10. (Currently Amended) A reflective liquid crystal display device, comprising:

a display panel including two substrates spaced apart, liquid crystal sandwiched between

the two substrates, and a reflector to reflect light through the liquid crystal:

an auxiliary light source device for supplying light to the display panel, including,

a light source,

a light directing member for directing incident light from the light source toward

the display panel, the light directing member having an upper surface and a lower surface

parallel to each other, the lower surface having a plurality of convex portions, each having a

substantially planar surface which is substantially parallel to the lower surface and a side surface

connecting the planar surface and the lower surface, a side surface angle between the lower

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surface and the planar side surface of the convex portion being about 90°, wherein the plurality

of convex portions have the same side surface angle with each other, wherein light reflected

along an orthogonal direction to the display panel is uniform, and wherein a size of the plurality

of convex portions increases with increasing distance from the light source; and

a light reflecting member which guides light from the light source into the light directing

member, said display panel being between said auxiliary light source and said light reflecting

member.

11. (Currently Amended) An auxiliary light source device for a reflective liquid crystal

display device having a reflector, the auxiliary light source device comprising:

an upper reflective surface to reflect impinging light above a certain incidence angle;

a lower reflective surface parallel to the upper reflective surface, the lower reflective

surface having a plurality of convex portions extending toward the reflector to direct light from

the auxiliary light source device to the reflector outwardly along an orthogonal direction; and

an entry surface connecting the upper and lower reflective surfaces through which light

from a light source enters, wherein each convex portion includes a planar portion which is

substantially parallel to the lower reflective surface and [[sides]] side surfaces connecting the

planar portion with the lower reflective surface, and a side surface angle between the lower

surface and the [[sides]] side surfaces is about 90°, wherein the plurality of convex portions have

the same side surface angle with each other, wherein light reflected along an orthogonal direction

to the liquid crystal display device is uniform, and wherein a size of the plurality of convex

portions increases with increasing distance from the light source.

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Claims 12-13 (Cancelled)

14. (Previously Presented) The device according to claim 11, wherein the planar portion is

substantially parallel to the lower reflective surface.

15. (Original) The device according to claim 11, wherein a cross section of each convex

portion is substantially circular.

16. (Original) The device according to claim 11, wherein a cross section of each convex

portion is rectangular.

17. (Original) The device according to claim 11, wherein each convex portion extends

along substantially an entire width of the reflective liquid crystal display device.

18. (Original) The device according to claim 11, wherein the plurality of convex portions

are spaced along the lower surface to ensure a uniform distribution of light along a length of the

device.

Claims 19-20 (Cancelled)

21. (Previously Presented) An auxiliary light source device for a reflective liquid crystal

display device having a reflector, the auxiliary light source device comprising:

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a light source extending along a width of the reflector, to emit light along a length of the

reflector; and

a light directing device located above the reflector and adjacent to the light source to direct

light from the light source to the reflector outwardly along an orthogonal direction such that a

light distribution of light directed by the light directing device is substantially uniform along the

length of the reflector, and such that the directed light is substantially perpendicular to the

reflector, and the light directing device includes an upper surface, a lower surface parallel to the

upper surface and a plurality of portions each extending from the lower surface toward the

reflector at a 90° angle such that the light reflected outwardly along an orthogonal direction to

the liquid crystal display device is uniform, wherein each portion includes a planar surface which

is substantially parallel to the lower surface, and wherein a size of the plurality of portions

increases with increasing distance from the light source.

Claims 22-23 (Cancelled)

24. (Previously Presented) The device according to claim 21, wherein each of the plurality

of portions includes a planar surface parallel to a lower surface of the light directing device and

connected to the lower surface by at least one side oriented substantially perpendicular to the

lower surface.

25. (New) The auxiliary light source device of claim 1, wherein the angle between the

side surface and a line perpendicular to the planar surface is about between 0° and 10°.

26. (New) The auxiliary light source device of claim 10, wherein the angle between the

side surface and a line perpendicular to the planar surface is about between 0° and 10°.

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27. (New) The auxiliary light source device of claim 11, wherein the angle between the side surface and a line perpendicular to the planar surface is about between 0° and 10°.